SEP 03 2004

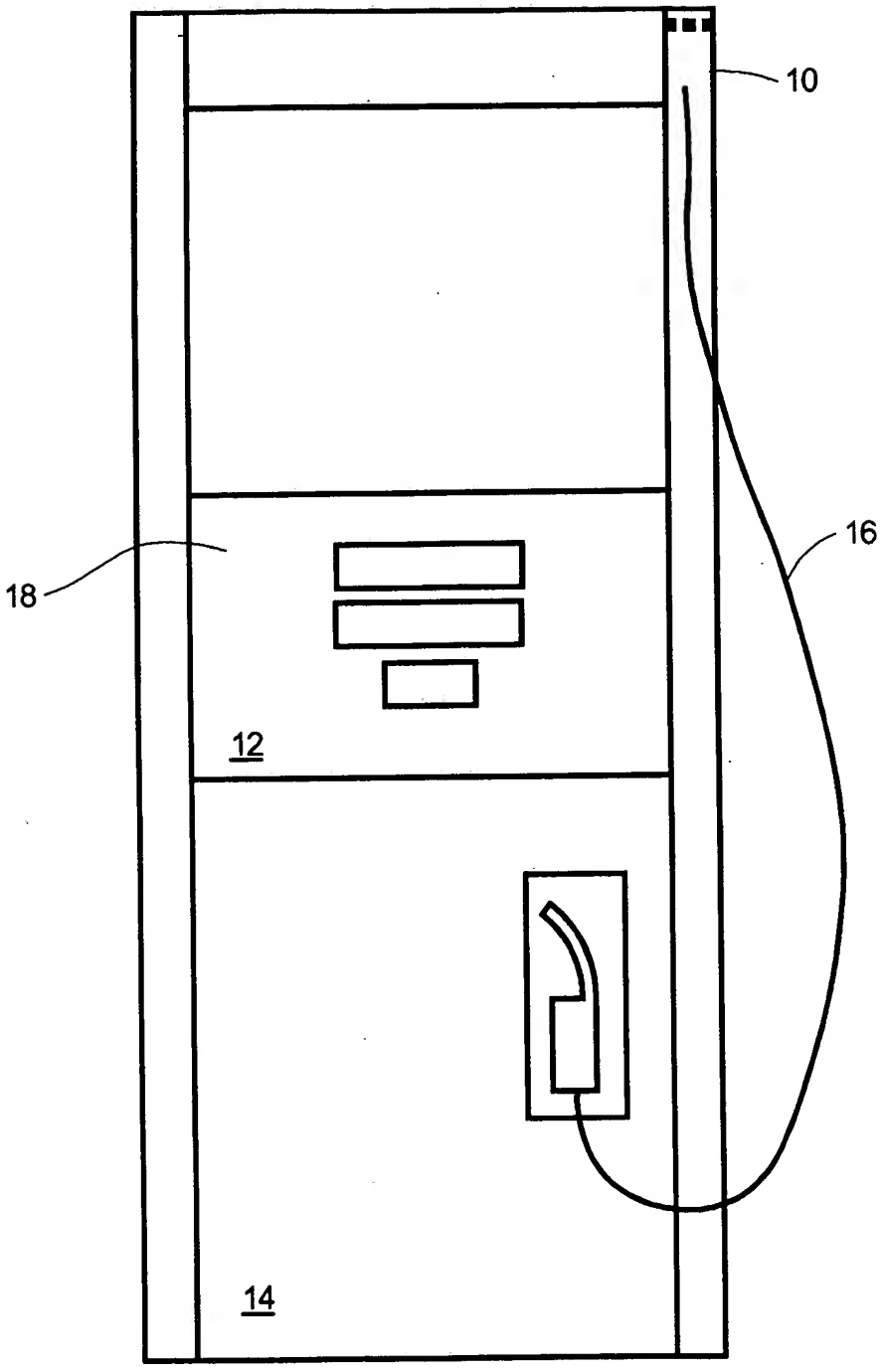

Figure 1

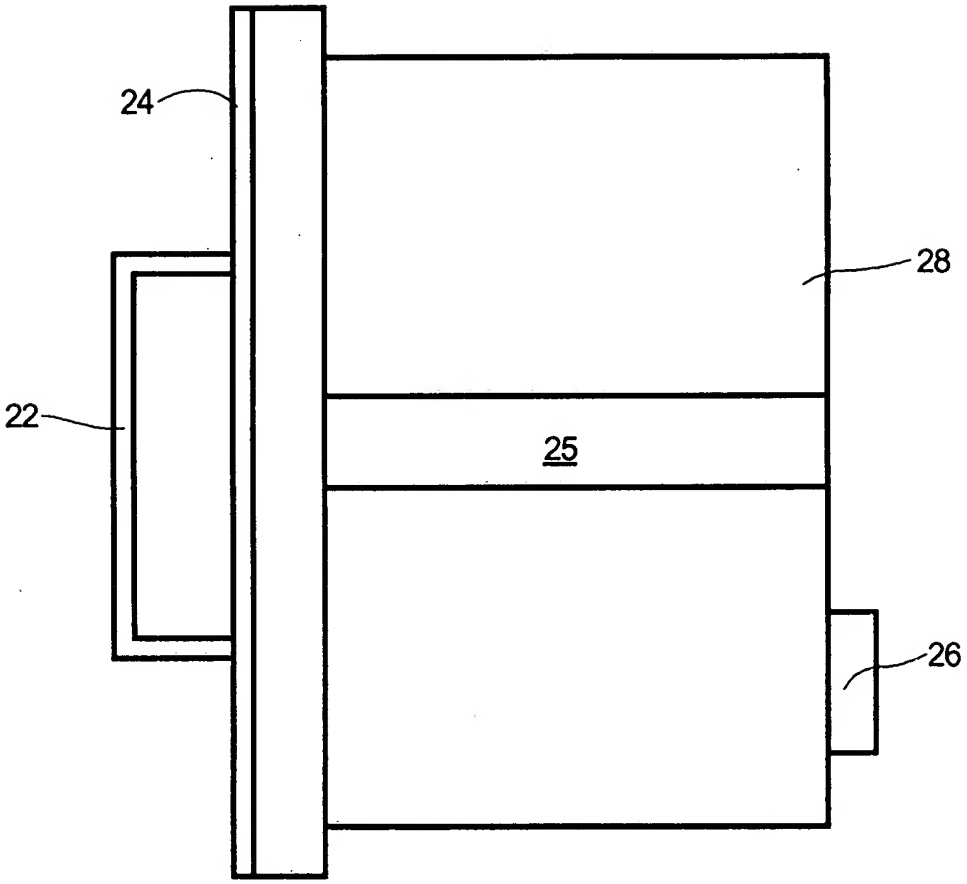

Figure 2

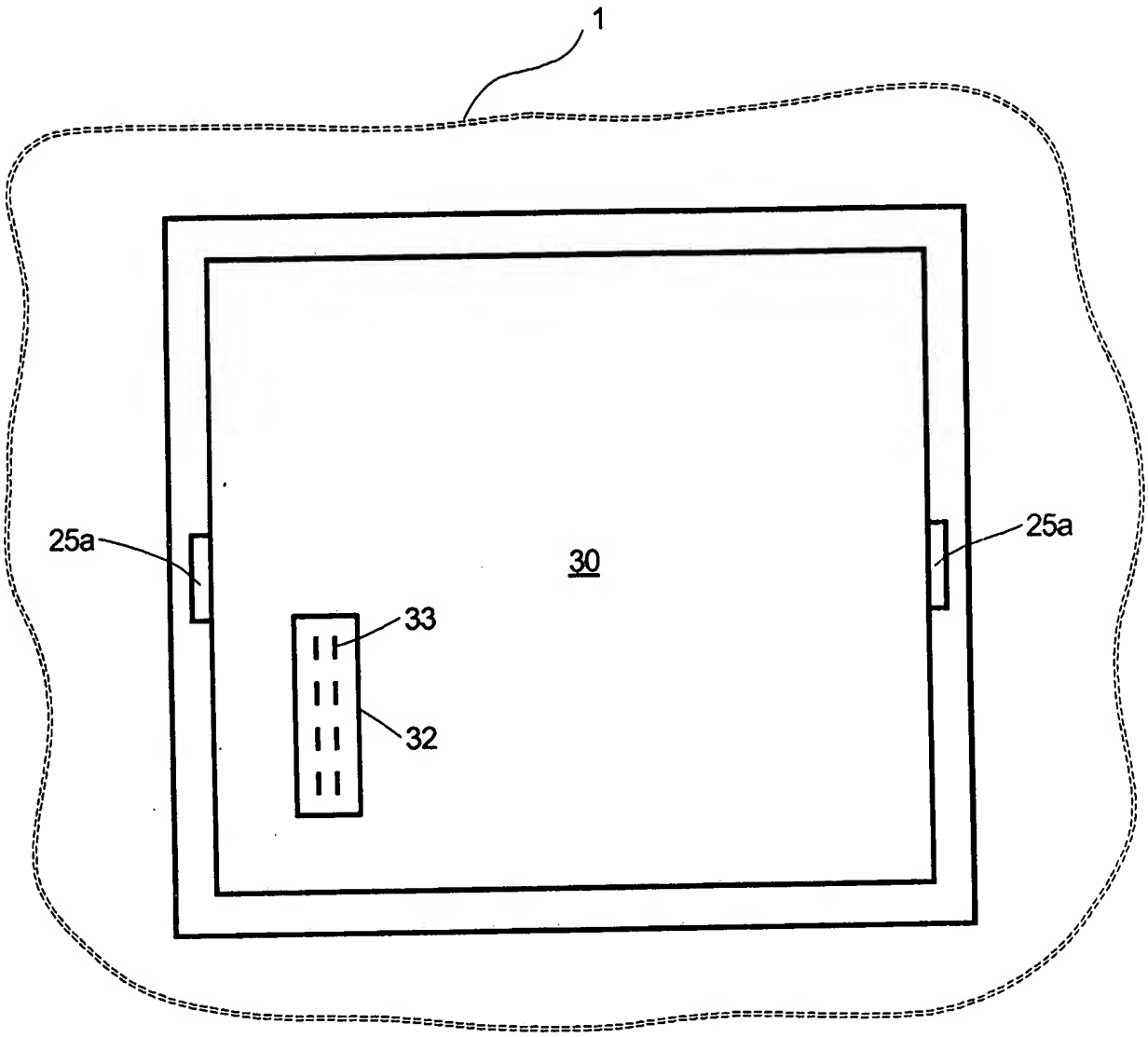

Figure 3

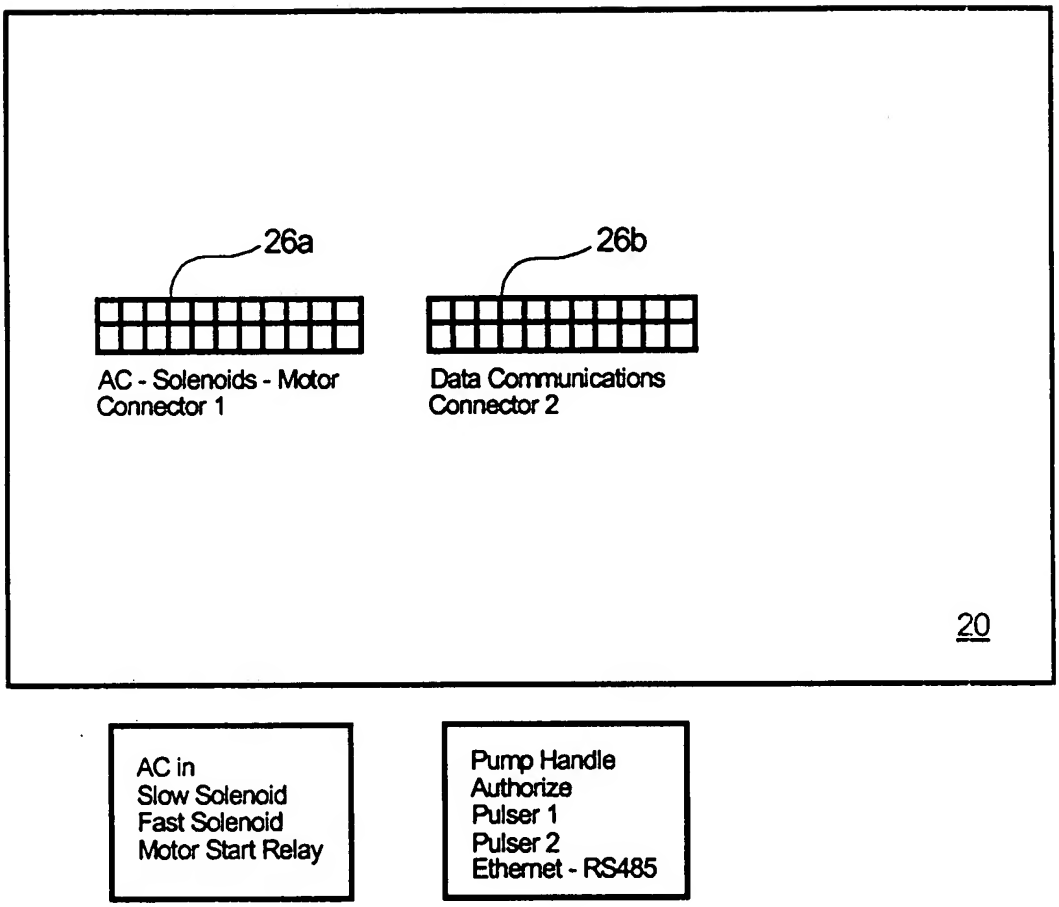
26a
26b
AC - Solenoids - Motor
Connector 1
Data Communications
Connector 2
20
AC in
Slow Solenoid
Fast Solenoid
Motor Start Relay
Pump Handle
Authorize
Pulser 1
Pulser 2
Ethernet - RS485

Figure 3a

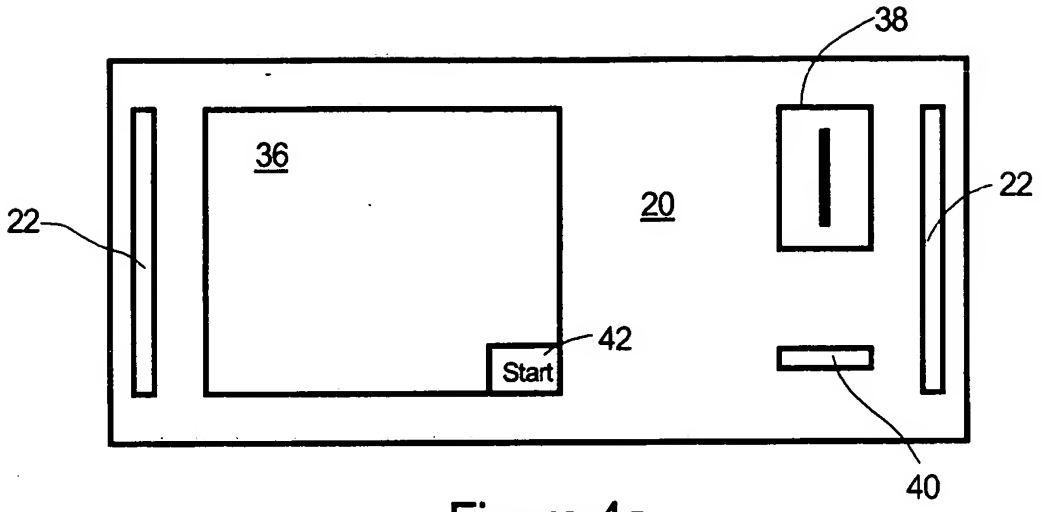

Figure 4a

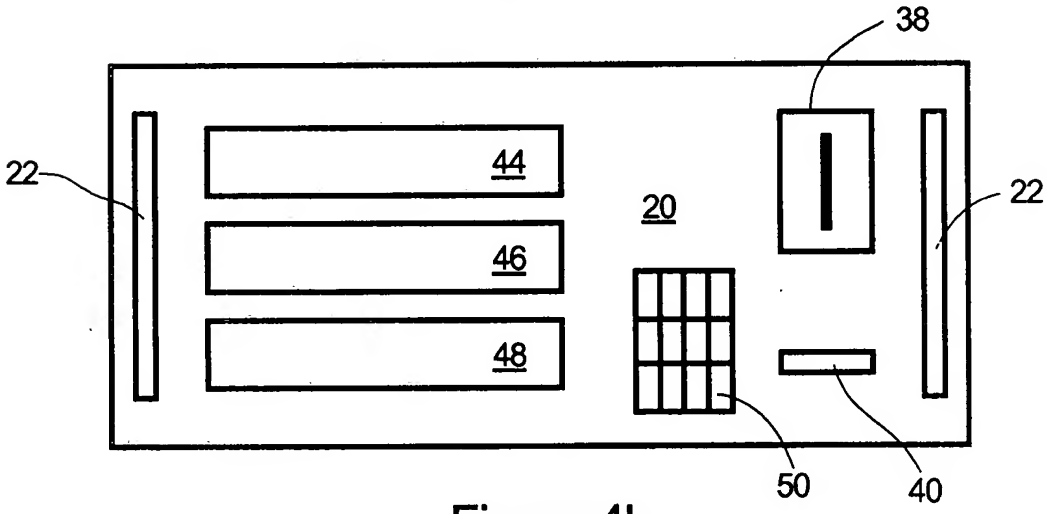

Figure 4b

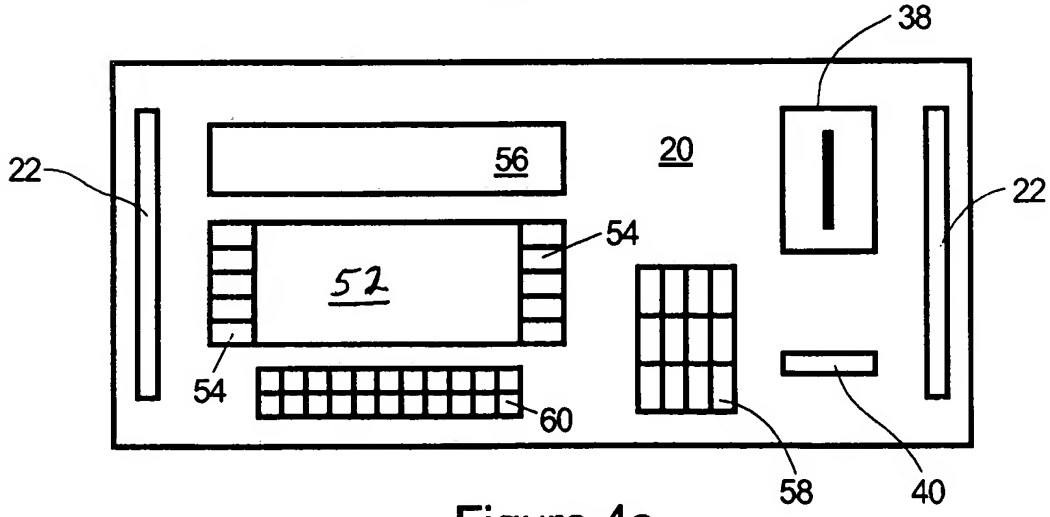

Figure 4c

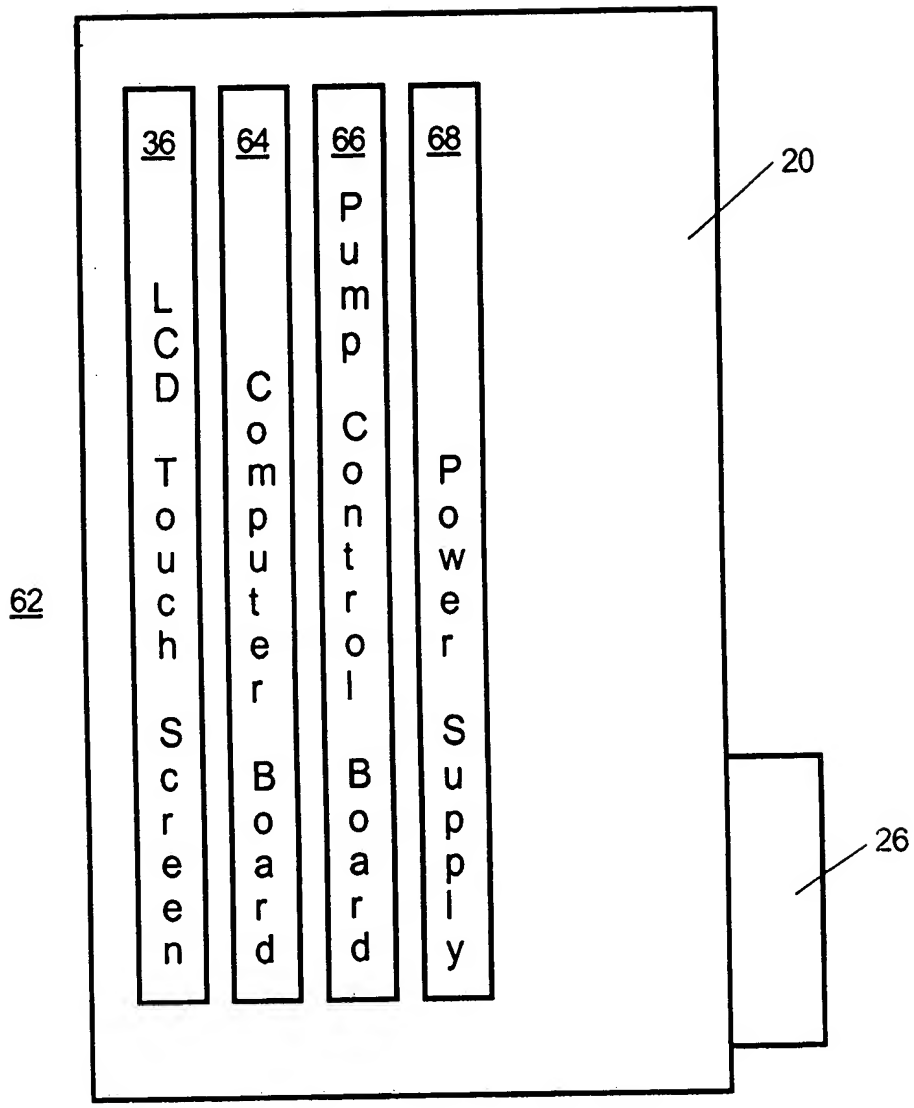
36
LCD Touch Screen
64
Computer Board
66
Pump Control Board
68
Power Supply
20
62
26

Figure 5

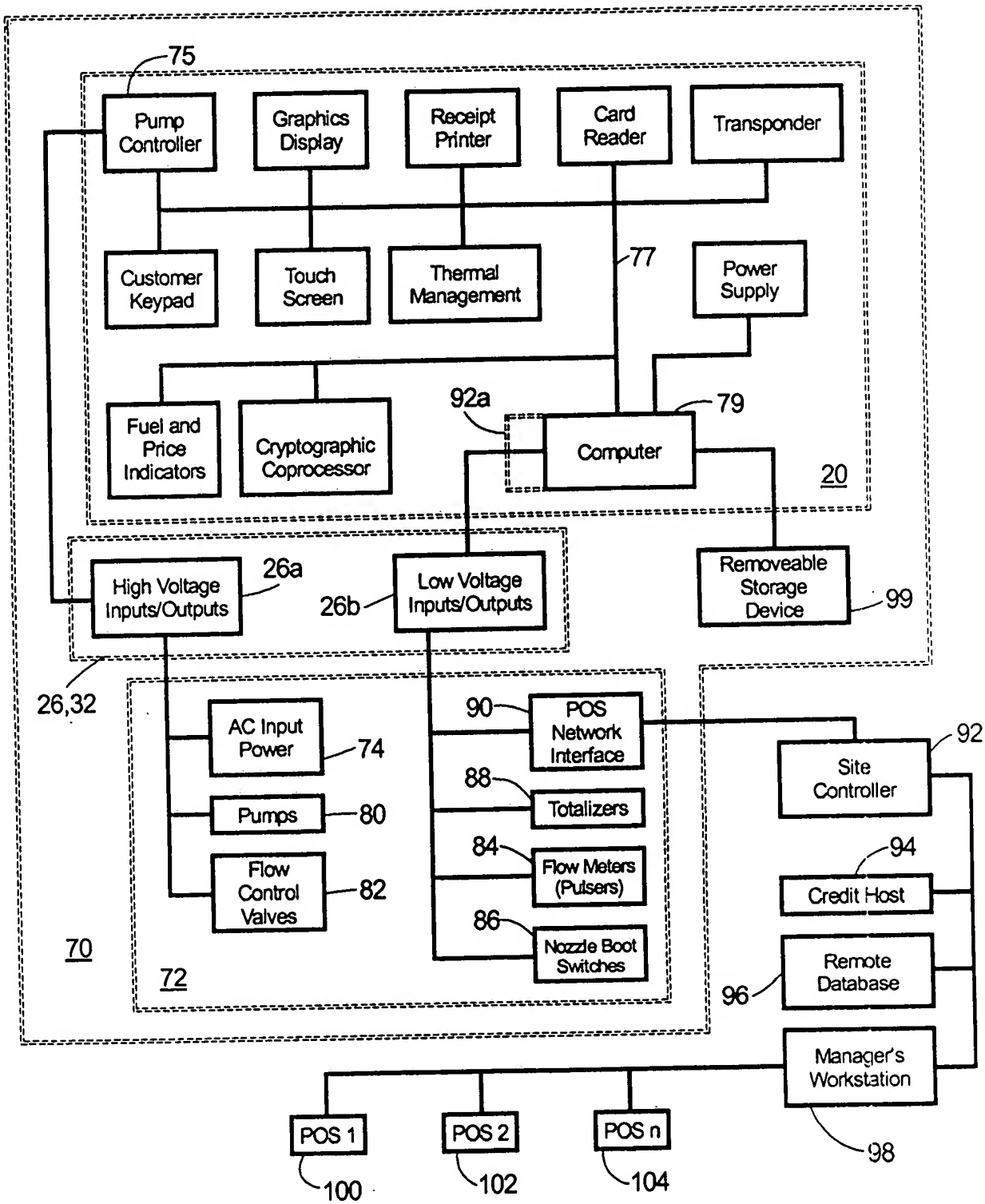
75
Pump Controller
Graphics Display
Receipt Printer
Card Reader
Transponder
Customer Keypad
Touch Screen
Thermal Management
77
Power Supply
Fuel and Price Indicators
Cryptographic Coprocessor
92a
79
Computer
20
High Voltage Inputs/Outputs
26a
26b
Low Voltage Inputs/Outputs
Removeable Storage Device
99
26,32
AC Input Power
74
Pumps
80
Flow Control Valves
82
90
POS Network Interface
88
Totalizers
84
Flow Meters (Pulsers)
86
Nozzle Boot Switches
70
72
92
Site Controller
94
Credit Host
Remote Database
96
Manager's Workstation
98
POS 1
100
POS 2
102
POS n
104

Figure 6

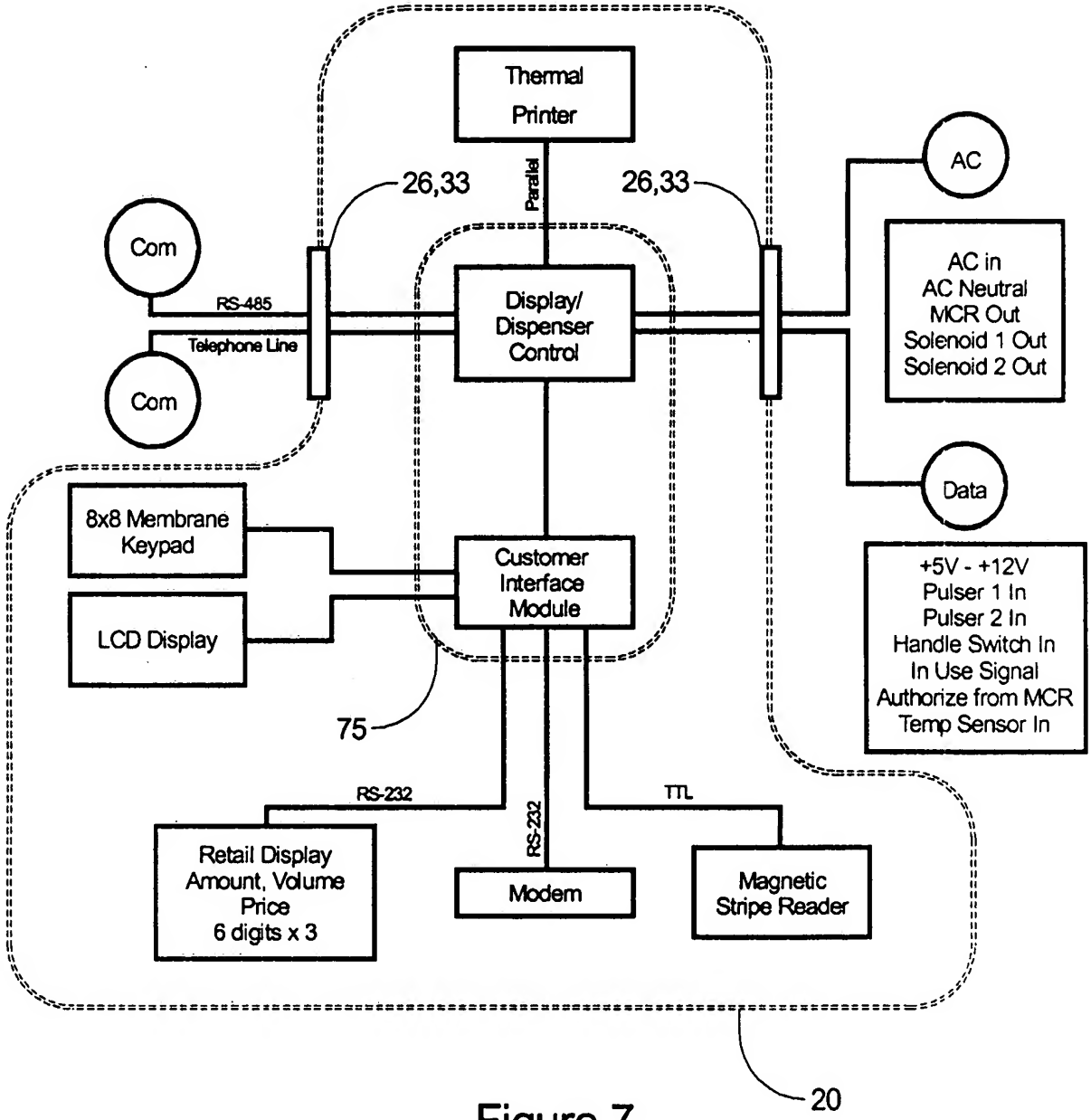
Thermal Printer
Parallel
26,33
26,33
AC
Com
RS-485
Telephone Line
Com
Display/ Dispenser Control
AC in
AC Neutral
MCR Out
Solenoid 1 Out
Solenoid 2 Out
Data
8x8 Membrane Keypad
LCD Display
Customer Interface Module
+5V - +12V
Pulser 1 In
Pulser 2 In
Handle Switch In
In Use Signal
Authorize from MCR
Temp Sensor In
75
RS-232
RS-232
TTL
Retail Display
Amount, Volume
Price
6 digits x 3
Modem
Magnetic Stripe Reader
20

Figure 7

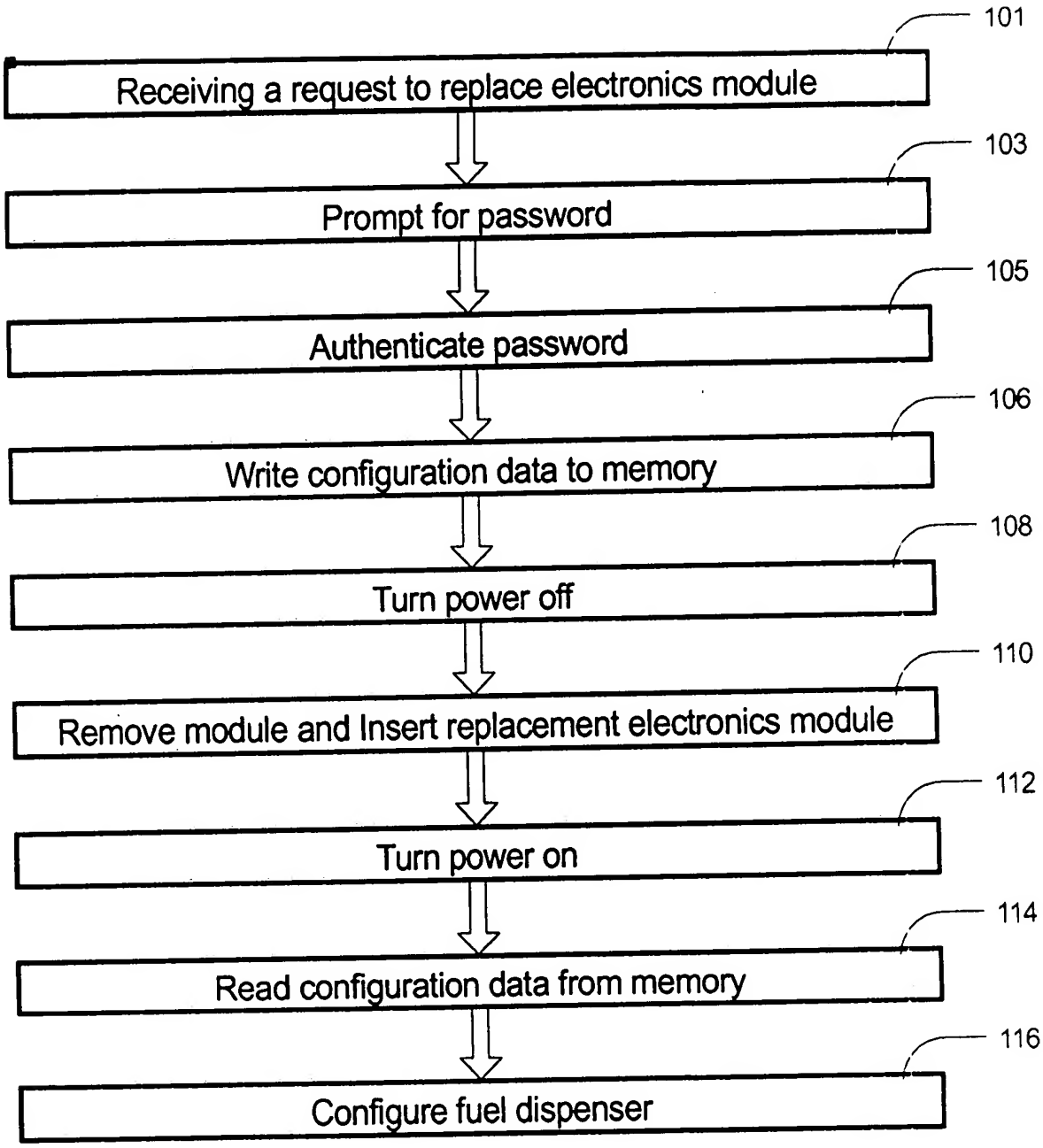
101
Receiving a request to replace electronics module
103
Prompt for password
105
Authenticate password
106
Write configuration data to memory
108
Turn power off
110
Remove module and Insert replacement electronics module
112
Turn power on
114
Read configuration data from memory
116
Configure fuel dispenser

Figure 8